

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

**PATENT NO.** : 7,037,662  
**APPLICATION NO.** : 09/104,340  
**ISSUE DATE** : May 2, 2006  
**INVENTOR(S)** : Boyd et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At the First page, column 2 (Abstract), line 4, please delete “gone” and insert --gene-- therefor.

At column 1, line 24, please delete “Neumbiol” and insert --Neurobiol-- therefor.

At column 1, line 26, please delete “(TOF-β)” and insert --(TGF-β)-- therefor.

At column 1, line 41 (approx.), please delete “simulation” and insert --stimulation-- therefor.

At column 1, line 54, please delete “Bemstein” and insert --Bernstein-- therefor.

At column 1, line 57, please delete “348;” and insert --348;-- therefor.

At column 1, line 58, please delete “A.” and insert --A.-- therefor.

At column 2, line 1, please delete “Chang” and insert --Cheng-- therefor.

At column 2, line 2, please delete “et al.” and insert --et al.-- therefor.

At column 2, line 8, please delete “(Hiral)” and insert --(Hirai-- therefor.

At column 2, line 10, please delete “7;” and insert --7;-- therefor.

At column 2, line 14 (approx.), please delete “et at.” and insert --et al.-- therefor.

At column 2, line 34 (approx.), please delete “at al.” and insert --et al.-- therefor.

At column 2, line 36 (approx.), please delete “(LERKS:” and insert --(LERKS;-- therefor.

At column 2, line 36 (approx.), please delete “et at.” and insert --et al.-- therefor.

At column 2, line 43, please delete “et al. 1994;” and insert --et al., 1994;-- therefor.

At column 2, line 45 (approx.), please delete “Brambilia” and insert --Brambilla-- therefor.

At column 2, line 55, please delete “ill” and insert --III-- therefor.

At column 2, line 56, please delete “et at.” and insert --et al.-- therefor.

At column 2, line 59, please delete “crossreactivity” and insert --cross-reactivity-- therefor.

At column 2, line 64, please delete “et al.” and insert --et al.-- therefor.

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DOCKET NO. FISHR11.001AUS

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At column 2, line 65, please delete “et **oh**,” and insert --et **al**,-- therefor.

At column 2, line 66, please delete “St **al**,” and insert --et **al**,-- therefor.

At column 3, line 14, please delete “et **at**,” and insert --et **al**,-- therefor.

At column 3, line 18-19, please delete “retinoteotal” and insert --retinotectal-- therefor.

At column 3, line 20, please delete “et **at**,” and insert --et **al**,-- therefor.

At column 3, line 21, please delete “370,” and insert --370;-- therefor.

At column 3, line 22, please delete “et **at**,” and insert --et **al**,-- therefor.

At column 3, line 23 (approx.), please delete “OBJET” and insert --OBJECT-- therefor.

At column 3, line 32 (approx.), please delete “high affinity” and insert --high-affinity-- therefor.

At column 3, line 45, please delete “**Is**” and insert --is-- therefor.

At column 3, line 56 (approx.), please delete “CYS<sub>305</sub>” and insert --CYS<sub>306</sub>-- therefor.

At column 3, line 57 (approx.), please delete “CYS<sub>352</sub>-CYS<sub>385</sub>.” and insert --CYS<sub>362</sub>-CYS<sub>365</sub>-- therefor.

At column 3, line 64, please delete “axon I, axon” and insert --exon I, exon-- therefor.

At column 4, line 4, please delete “FIG” and insert --FIG-- therefor.

At column 4, line 14, please delete “adds” and insert --acids-- therefor.

At column 4, line 17, after “NO:4)” delete “,”.

At column 4, line 26, please delete “axon” and insert --exon-- therefor.

At column 4, line 50, please delete “se” and insert --as-- therefor.

At column 5, line 42, please delete “described,” and insert --described-- therefor.

At column 5, line 49, please delete “20’ ” and insert --20°-- therefor.

At column 5, line 50, please delete “25’ ” and insert --25°-- therefor.

At column 5, line 51, please delete “10’ to 15’ ” and insert --10° to 15°-- therefor.

At column 5, line 53, please delete “**Is**” and insert --is-- therefor.

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At column 5, line 64, after "length" insert, --,--.

At column 5, line 66, please delete "10<sup>5</sup>" and insert --10<sup>8</sup>-- therefor.

At column 6, line 7 (approx.), please delete "60000" and insert --6000-- therefor.

At column 6, line 30, please delete "et al" and insert --et al.-- therefor.

At column 6, line 31, please delete "CLONING," and insert --CLONING.-- therefor.

At column 7, line 12 (approx.), please delete "add" and insert --acid-- therefor.

At column 7, line 49, please delete "calls" and insert --cells-- therefor.

At column 7, line 49, please delete "coils" and insert --cells-- therefor.

At column 8, line 11 (approx.), please delete "es" and insert --as-- therefor.

At column 8, line 16, please delete "end" and insert --and-- therefor.

At column 8, line 33 (approx.), please delete "subsequences" and insert --sub-sequences-- therefor.

At column 8, line 43-44, please delete "Collgan" and insert --Coligan-- therefor.

At column 9, line 65, please delete "defect," and insert --defects,-- therefor.

At column 10, line 8, please delete "form" and insert --from-- therefor.

At column 10, line 30, please delete "according," and insert --according-- therefor.

At column 10, line 48 (approx.), please delete "NOS" and insert --NOS:-- therefor.

At column 10, line 49 (approx.), please delete "NOS" and insert --NOS:-- therefor.

At column 10, line 50 (approx.), please delete "NOS" and insert --NOS:-- therefor.

At column 10, line 50 (approx.), after "amino" please insert --acid--.

At column 10, line 51 (approx.), please delete "NO" and insert --NO:-- therefor.

At column 10, line 57 (approx.), please delete "2B," and insert --2B:-- therefor.

At column 10, line 64, please delete "Sajjadi" and insert --Sajjadi-- therefor.

At column 11, line 9 (approx.), please delete "2E;" and insert --2E:-- therefor.

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At column 11, line 27 (approx.), Delete “hydrophoblo” and insert -- hydrophobic -- therefor.

At column 11, line 34 (approx.), Delete “tall” and insert -- tail -- therefor.

At column 12, line 5, Delete “(I)” and insert -- (I) -- therefor.

At column 12, line 8, Delete “7” and insert -- 7: -- therefor.

At column 12, line 23, Delete “199,” and insert -- 1992, -- therefor.

At column 12, line 24, Delete “Leokmann” and insert -- Lackmann -- therefor.

At column 12, line 28 (approx.), After “Batches” insert -- of --.

At column 12, line 46 (approx.), Delete “Hek” and insert -- HEK -- therefor.

At column 12, line 56, Delete “end” and insert -- and -- therefor.

At column 12, line 61, Delete “blosensor” and insert -- biosensor -- therefor.

At column 13, line 16, Delete “et at,” and insert -- et al., -- therefor.

At column 13, line 30, Delete “library” and insert -- library -- therefor.

At column 13, line 41, Delete “end” and insert -- and -- therefor.

At column 13, line 44, Delete “C(bases” and insert -- C (bases -- therefor.

At column 13, line 48, Delete “GTAGTCTAGACAAGCTTGTGCGACCAGGTT”  
and insert -- GTAGTCTAGACAAGCTTGT CGACCAGGTTT -- therefor.

At column 13, line 55, Delete “(Saijadi)” and insert -- (Sajjadi -- therefor.

At column 13, line 59, After “and” insert -- λ --.

At column 13, line 60, Delete “Elize” and insert -- Eliza -- therefor.

At column 13, line 64, Delete “In” and insert -- in -- therefor.

At column 14, line 2, Delete “88°” and insert -- 68° -- therefor.

At column 14, line 12, Delete “Biosysterris,” and insert -- Biosystems, -- therefor.

At column 14, line 20, Delete “17),” and insert -- 17) -- therefor.

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At column 14, line 21, Delete "**11**," and insert -- **18** -- therefor.

At column 14, line 28, Delete "**Aced**," and insert -- **Acad** -- therefor.

At column 14, line 31, Delete "**N terminal**" and insert -- **N-terminal** -- therefor.

At column 14, line 41, Delete "**IV-VI**," and insert -- **IV-VII** -- therefor.

At column 14, line 47, Delete "**223**" and insert -- **23** -- therefor.

At column 14, line 62, After ">95%" delete "**a**".

At column 15, line 1, Delete "**add**" and insert -- **acid** -- therefor.

At column 15, line 4, Delete "**1995**," and insert -- **1996** -- therefor.

At column 15, line 5, After "expression" insert -- constructs --.

At column 15, line 7, Delete "(GTAGTCTAGACAGGACCCGGGCTCAAGGC)" and insert -- (GTAGTCTAGACAGGACCCGGGCTCCAAGGC) -- therefor.

At column 15, line 14, Delete "**Mannhelm**," and insert -- **Mannheim** -- therefor.

At column 15, line 17, Delete "**Bt**" and insert -- **et** -- therefor.

At column 15, line 28 (approx.), Delete "**BioRad**," and insert -- **BioRad** -- therefor.

At column 15, line 38 (approx.), Delete "**ant-mouse**" and insert -- **anti-mouse** -- therefor.

At column 15, line 46, Delete "**6**," and insert -- **5** -- therefor.

At column 15, line 52 (approx.), Delete "**Triis**," and insert -- **Tris** -- therefor.

At column 15, line 54-55 (approx.), Delete "**12,10/30**," and insert -- **12, 10/30** -- therefor.

At column 15, line 56 (approx.), Delete "**protein**" and insert -- **proteins** -- therefor.

At column 15, line 57 (approx.), Delete "**HPLC**," and insert -- **HPLC** -- therefor.

At column 15, line 59 (approx.), Delete "**et at**," and insert -- **et al** -- therefor.

At column 15, line 64, Delete "**61**" and insert -- **51** -- therefor.

At column 16, line 10, Delete "**et al**," and insert -- **et al** -- therefor.

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At column 16, line 13-14, Delete “) carbodiimide” and insert -- )-carbodiimide -- therefor.

At column 16, line 21, Delete “Pharamacia” and insert -- Pharmacia -- therefor.

At column 16, line 22, Delete “Biosensor” and insert -- Biosensor -- therefor.

At column 16, Eq. 1, Delete “ $R=R_O \cdot \Theta^{-k_d(t-t_o)}$ ” and insert --  $R=R_O \cdot e^{-k_d(t-t_o)}$  -- therefor.

At column 16, Eq. 2, Delete “ $R=R_O/k_e(1-e^{-k_s(t-t_o)})$ ” and insert --  $R=R_O/k_s \cdot (1-e^{-k_s(t-t_o)})$  -- therefor.

At column 16, Eq. 3, Delete “ $R=R_{eq}(1-e^{-k_\delta(t-t_o)})$ ;  $k_\zeta = k_\zeta C + k_d$ ”

and insert --  $R=R_{eq}(1-e^{-k_s(t-t_o)})$ ;  $k_s = k_a C + k_d$  -- therefor.

At column 16, Eq. 4, Delete “ $R=R_1 e^{(-k_{d1} \cdot (t-t_o))} + (R_0 - R_1) e^{-k_{d2} \cdot (t-t_o)}$ ” and

insert --  $R=R_1 e^{(-k_{d1} \cdot (t-t_o))} + (R_0 - R_1) e^{-k_{d2} \cdot (t-t_o)}$  -- therefor.

At column 16, line 66 (approx.), Delete “word et al.” and insert -- Ward et al., -- therefor.

At column 17, line 5 (approx.), Delete “oh” and insert -- on -- therefor.

At column 17, line 30 (approx.), Delete “CDNA” and insert -- cDNA -- therefor.

At column 17, line 32 (approx.), Delete “aliquot.” and insert -- aliquots. -- therefor.

At column 17, line 57, Delete “Plue” and insert -- Plus -- therefor.

At column 18, line 19 (approx.), Delete “intro-exon” and insert -- intron-exon -- therefor.

At column 18, line 29, Delete “(Wioks)” and insert -- (Wicks) -- therefor.

At column 18, line 36 (approx.), Delete “(Saijadi)” and insert -- (Sajjadi) -- therefor.

At column 18, line 37 (approx.), Delete “Maisonplerre” and insert -- Maisonpierre -- therefor.

At column 18, line 37 (approx.), Delete “Oncogen” and insert -- Oncogene -- therefor.

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At column 18, line 38 (approx.), Delete "axon" and insert -- exon -- therefor.  
At column 18, line 63, Delete "axon," and insert -- exon, -- therefor.  
At column 18, line 66, Delete "of al.," and insert -- et al., -- therefor.  
At column 18, line 67, Delete "1988," and insert -- 1986, -- therefor.  
At column 19, line 10 (approx.), Delete "216:" and insert -- 216; -- therefor.  
At column 19, line 17 (approx.), Delete "(Maisonplerre" and insert -- (Maisonpierre -- therefor.  
At column 19, line 33 (approx.), Delete "Identify" and insert -- identify -- therefor.  
At column 19, line 40 (approx.), Delete "Cys<sub>9</sub>" and insert -- Cys<sub>71</sub> -- therefor.  
At column 19, line 42 (approx.), Delete "Cys<sub>305</sub>" and insert -- Cys<sub>306</sub> -- therefor.  
At column 19, line 43 (approx.), Delete "Cys<sub>352</sub>" and insert -- Cys<sub>362</sub> -- therefor.  
At column 19, line 59 (approx.), Delete "kD)." and insert -- kD), -- therefor.  
At column 20, line 18, Delete "supra:" and insert -- supra; -- therefor.  
At column 20, line 18, Delete "et at.," and insert -- et al., -- therefor.  
At column 20, line 27 (approx.), Delete "µg/n" and insert -- µg/ml -- therefor.  
At column 20, line 66, Delete "k<sub>2</sub>" and insert -- k<sub>a</sub> -- therefor.  
At column 20, line 67, Delete "10<sup>-5</sup>" and insert -- 10<sup>-3</sup> -- therefor.  
At column 20, line 67, Delete "k<sub>2</sub>" and insert -- k<sub>a</sub> -- therefor.  
At column 21, line 1, Delete "Apparant" and insert -- Apparent -- therefor.  
At column 21, line 2, Delete "10<sup>-5</sup>" and insert -- 10<sup>-8</sup> -- therefor.  
At column 21, line 9 (approx.), Delete "et at.," and insert -- et al., -- therefor.  
At column 21, line 11 (approx.), Delete "Interaction" and insert -- interaction --.  
At column 21, line 16 (approx.), Delete "Immobilised" and insert -- immobilised -- therefor.  
At column 21, line 24 (approx.), Delete "6-fold" and insert -- 5-fold -- therefor.

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At column 21, line 31, Delete "**BB**," and insert -- **6B**, -- therefor.  
At column 21, line 53, Delete "**8D**," and insert -- **6D** -- therefor.  
At column 21, line 56, Delete "crosslinked" and insert -- cross-linked -- therefor.  
At column 22, line 3, Delete "et al." and insert -- et al., -- therefor.  
At column 22, line 12 (approx.), Delete "**3FLAG**" and insert -- **3-FLAG** -- therefor.  
At column 22, line 26 (approx.), Delete "**Indirect**" and insert -- indirect -- therefor.  
At column 22, line 31 (approx.), Delete "199," and insert -- 1994, -- therefor.  
At column 23, line 6, Delete "**I-II**" and insert -- **I-III** -- therefor.  
At column 23, line 7, Delete "dos-dependent" and insert -- dose-dependent -- therefor.  
At column 23, line 21, Delete "Flanagan," and insert -- Flanagan, -- therefor.  
At column 23, line 28 (approx.), Delete "1995," and insert -- 1995, -- therefor.  
At column 23, line 28 (approx.), After "Xu" delete "of".  
At column 23, line 44, Delete "**In**" and insert -- **in** -- therefor.  
At column 23, line 50 (approx.), Delete "(FIG. 7)" and insert -- (as hereinbefore described) -- therefor.  
At column 23, line 62-63, Delete "(Sajjadi et **ea.**," and insert -- (Sajjadi et **al.**, -- therefor.  
At column 24, line 3, Delete "(FIG. 10D)." and insert -- . -- therefor.  
At column 24, line 5, Delete "(FIG. 10A)," and insert -- (FIG. 7), -- therefor.  
At column 24, line 19, Delete "diorganised" and insert -- disorganised -- therefor.  
At column 24, line 19, Delete "(FIGS. 8A-F)." and insert -- . -- therefor.  
At column 24, line 20-21, After "12 hpf" delete "(FIGS. 8B and 8E)".  
At column 24, line 29 (approx.), Delete "seamentation" and insert -- segmentation -- therefor.  
At column 24, line 29-30 (approx.), Delete "(FIGS. 8B, 8E, 8C, 8F)." and insert -- . -- therefor.  
At column 24, line 40 (approx.), Delete "defeots," and insert -- defects, -- therefor.

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At column 24, line 46 (approx.), Delete "(Kraus," and insert -- (Krauss, -- therefor.  
At column 24, line 50, Delete "(FIG.11)," and insert --(FIG. 8)-- therefor.  
At column 24, line 52, Delete "FIGS. 9A, 9B) presented above." And insert --,-- therefor.  
At column 24, line 54 (approx.), Delete "(FIGS. 9C-F)." and insert --,-- therefor.  
At column 24, line 60 (approx.), After "injected with" delete "with".  
At column 24, line 61 (approx.), Delete "(FIGS. 9A, 9B)." and insert --,-- therefor.  
At column 24, line 66-67, delete "conforms (FIGS. 9D, 9F)" and insert --confirms-- therefor.  
At column 25, line 8, Delete "specific" and insert -- specific -- therefor.  
At column 25, line 14, Delete "In" and insert -- in -- therefor.  
At column 25, line 22 (approx.), Delete "high affinity" and insert -- high-affinity -- therefor.  
At column 25, line 25 (approx.), Delete "extodomain" and insert -- exodomain -- therefor.  
At column 25, line 26-27 (approx.), Delete "high affinity" and insert -- high-affinity -- therefor.  
At column 25, line 40, Delete "(FIG. 10C)," and insert --,-- therefor.  
At column 25 line 40-41, Delete "(FIG. 10G)." and insert --,-- therefor.  
At column 25, line 41, After "expression" delete "(FIG. 10D)".  
At column 25, line 43, Delete "(FIG. 10A)" and insert -- (FIG. 7)-- therefor.  
At column 25, line 48 (approx.), Delete "ligands," and insert -- ligands -- therefor.  
At column 25, line 65, Delete "LERK" and insert -- LERKS -- therefor.  
At column 26, line 4, Delete "9L," and insert -- al., -- therefor.  
At column 26, line 7, Delete "receptively)," and insert -- respectively), -- therefor.  
At column 26, line 13 (approx.), Delete "1996," and insert -- 1995, -- therefor.  
At column 26, line 33 (approx.), Delete "et al," and insert -- et al., -- therefor.  
At column 26, line 35 (approx.), After solution delete "(FIG. 7)".

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At column 26, line 38 (approx.), Delete "1998)" and insert -- 1996) -- therefor.

At column 26, line 47, Delete "LERK-Fe/HEK" and insert -- LERK-Fc/HEK -- therefor.

At column 26, line 57 (approx.), Delete "dimerio" and insert -- dimeric -- therefor.

At column 26, line 60, Delete "Interactions," and insert -- interactions, -- therefor.

At column 26, line 63, Delete "et el.," and insert -- et al., -- therefor.

At column 26, line 65, Delete "receptor ligand" and insert -- receptor-ligand -- therefor.

At column 26, line 67, Delete "some" and insert -- same -- therefor.

At column 27, line 1, Delete "(Gals" and insert -- (Gale -- therefor.

At column 27, line 10 (approx.), Delete "at al.," and insert -- et al., -- therefor.

At column 27, line 40 (approx.), Delete "experiments" and insert -- experiments, -- therefor.

At column 27, line 44, Before "and" delete "(FIG.7)".

At column 27, line 45, Delete "al. 1996," and insert -- al., 1995, -- therefor.

At column 27, line 51, Delete "LERK3"" and insert -- LERK3 -- therefor.

At column 27, line 65, After "LERK" insert -- 7 -- therefor.

At column 28, line 6, Delete "arid" and insert -- acid -- therefor.

At column 28, line 7, Delete "is" and insert -- its -- therefor.

At column 28, line 9, Delete "identitityin" and insert -- identity in -- therefor.

At column 28, line 10, Delete "(99 6%" and insert -- (99.5% -- therefor.

At column 28, line 10, Delete "respectively," and insert -- respectively; -- therefor.

At column 28, line 17, Delete "necessarry" and insert -- necessary -- therefor.

At column 28, line 26, Delete "suppports" and insert -- supports -- therefor.

At column 28, line 28, Delete "at" and insert -- acts -- therefor.

At column 28, line 31 (approx.), Delete "signalling" and insert -- signaling -- therefor.

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At column 28, line 33 (approx.), Delete "be Spirtz" and insert -- b, Spritz -- therefor.

At column 28, line 34 (approx.), Delete "at ea.," and insert -- et al., -- therefor.

At column 28, line 41 (approx.), Delete "ligaind" and insert -- ligand -- therefor.

At column 28, line 42, Delete "et at," and insert -- et al., -- therefor.

At column 28, line 46, Delete "et at.," and insert -- et al., -- therefor.

At column 28, line 53 (approx.), Delete "tiitrating" and insert -- titrating -- therefor.

At column 28, line 57, Delete "receptor ligands" and insert -- receptor-ligands -- therefor.

At column 28, line 59, Delete "1998," and insert -- 1996, -- therefor.

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